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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,959	07/21/2003	Feng Lin	2008.007700/03-0457	6056	
23720	7590 04/19/2005		EXAMINER		
WILLIAMS, MORGAN & AMERSON, P.C. 10333 RICHMOND, SUITE 1100			CHANG, JOSEPH		
HOUSTON, 7			ART UNIT PAPER NUME		
			2817		
			DATE MAILED: 04/19/2003	DATE MAILED: 04/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	(m)
055 4-45 0	10/623,959	LIN, FENG	
Office Action Summary	Examiner	Art Unit	
	Joseph Chang	2817	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence addi	ress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tiled by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this come ED (35 U.S.C. § 133).	nmunication.
Status			
1) Responsive to communication(s) filed on	•		
	is action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under	· · · · · · · · · · · · · · · · · · ·		merits is
Disposition of Claims	•		
4) ☐ Claim(s) 1-44 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-44 are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin	er.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E		· ·	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received in Applicatority documents have been received.	ion No ed in this National S	Stage
Attachment(s)			
1)	4) 🔲 Interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date			152)

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-13, drawn to a phase detector, classified in class 327, subclass
 102.
- Claims 14-32, drawn to a phase locked loop circuit, classified in class 331, subclass 25.
- III. Claims 33-44, drawn to a delay lock loop, classified in class 327, subclass 161.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions involve a phase detector configuration, which is not related to the invention II, which involves a phase locked loop circuit, nor related to the invention III which involves a delay lock loop.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Chang whose telephone number is 571 272-1759. The examiner can normally be reached on Mon-Fri 0700-1730.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Chang

Patent Examiner

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